Haley Morgan

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PROFESSIONAL EXPERIENCE

Datapeople

Senior Backend Software Engineer   SEP 2022 – PRESENT

- Lead redevelopment of ETL data pipelines after identifying scaling bottlenecks and planning architecture improvements
- Develop and maintain internal APIs for R&D team and product analytics tools
- Design and maintain cloud infrastructure and automate creation of AWS resources including ECS tasks, step functions, lambda functions, s3 buckets, logs, databases, users/permissions (using Terraform)
- Collaborate with founders, frontend engineers, product leads, customer success team leads, and external stakeholders for necessary project planning and progress communication

Backend Software Engineer   AUG 2021 – SEP 2022

- Design, develop, and refactor custom customer integrations in a common architecture to enable use of data from 3rd party APIs (using Python, MySQL, Docker, combination of AWS services)
- Develop and maintain automation tools for in-house use by non-technical product managers to automate setup process for new customer integration requests
- Develop and maintain documentation surrounding data pipelines, integrations, internal APIs, architecture decisions

BNY Mellon, Data & Analytics Solutions

Software Engineer   SEP 2020 – AUG 2021

- Designed and developed custom data pipeline microservices to process and load multisource data using Python (Flask), RabbitMQ messaging, and PostgreSQL database, Kubernetes
- Designed, developed, and maintained a data quality and validation service to capture statistics on data processed within the pipeline and ensure 100% application data accuracy
- Developed command line tools to enable non-technical business users to manager their own access/loads to database
- Created comprehensive documentation in Confluence around all microservices - including setup instructions, running the services, troubleshooting, and example uses
- Managed service deployments in dev, stage, and prod environments for Python microservices
- Maintained >93% unit test coverage on all code repositories I was responsible for

Boston Fusion Corporation

Software Engineer (Security Clearance: Top Secret)   OCT 2019 - SEP 2020

- Designed and developed machine learning software for anomaly detection research programs in direct consultation with project Principal Investigator (PI)
- Developed parsers to fuse multisource data to develop and integrate large processed datasets for use in predictive analytics and software programs
- Lead UI development for design, build, and production of full-stack web applications according to client specifications and needs

EDUCATION

University of Pennsylvania (UPenn) - *Professional Certificate, Computer Science Essentials*

Worcester Polytechnic Institute (WPI) - *Bachelor of Science, Civil and Environmental Engineering*

TECHNICAL SKILLS

Languages: Python, SQL (PostgreSQL, MySQL), JavaScript, HTML, CSS, Java
Tooling/Other: AWS (S3, State Machines, SQS, ECS, Lambda &+), Azure, Docker, Terraform, Kubernetes, Git, APIs, data pipelines